

Major Map: Computer Science Bachelor of Science in Computer Science (B.S.C.S.)

College of Engineering and Computing
Department of Computer Science & Engineering
Bulletin Year: 2020-2021

This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study.

| Committee Comm | The Program Notes section for details regarding. Critical codises | | | Progran | | | |
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| ERNSL 101 Critical Reading and Composition 3 | | | | | | Prerequisites | Notes |
| MATH 141 Calculus 13 | | | | | _ | | |
| CSCE 146 Algorithmic Design 4 | | | | | | | |
| CSCE 145 Algorithmic Design 4 | ! MATH 141 Calculus 1° | 4 | C | | CC-ARP | | |
| Carolina Core All' | L CSCE 145 Algorithmic Design I | Λ | С | * | PR | | |
| Carolina Core Alu* Semester Two (16 Fordit Hours) | CSCF 190 Computing in the Modern World | | | * | | | |
| Semester Two (16 Grodul Hours) ENGL 101 CC-CHW C or better in ENGL 101 | | | Ŭ | | | 110104 01 00104. 0002 110, 201, 200, 01 200 | |
| ENGL 102 Reteor. and Composition 3 C CC-CMW C-C-INF C or better in RNGL 101 | | | | | | | |
| MATH 142 Calculus 1 | ENGL 102 Rhetoric and Composition | 3 | С | | | C or better in ENGL 101 | |
| CHEM 111 & CHEM 1111 L - General Chem. or PHYS 211 & PHYS 211 & PESSENIA Senial | | | | | | | |
| CSCE 146 Algorithmic Design II | | | | | | | |
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| CSCE 146 Algorithmic Design II | OFFITS 211 & FITS 211L - Essentials of Filys. I | | | | | | |
| CSCE 146 Algorithmic Design II | | | | | | | |
| CSCE 215 UNIXLinux Fundamentals | ! CSCE 146 Algorithmic Design II | 4 | С | * | PR | | |
| CSCE 215 UNIX/LINIX Fundamentals | | | | | | | |
| CSCE 211 Digital Logic Design | | 1 | С | * | PR | | |
| CSCE 240 Advanced Programming Techniques 3 | | | | | _ | | |
| MATH 374 Discrete Structures | | | | | | | |
| IMATH 374 Discrete Structures 3 | ! CSCE 240 Advanced Programming Techniques | 3 | C | * | PR | | |
| CHEM 112 & CHEM 112 — General Chem. II or PHYS 212 & PHYS 212 — Essentials of Phys. II or PHYS 212 & PHYS 212 — Essentials of Phys. II 11/115/12/12/11/11/11/11/11/11/11/11/11/11/11/ | L MATH 374 Discrete Structures | 2 | _ | | DP | | |
| Or PHYS 212 & PHYS 212L - Essentials of Phys. Introf. 115/122/141 or higher math (CHEM 112 only); C or better PHYS 211 and MATH 142 | | | | | | | |
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| SPCH 140 Public Communication or SPCH 230 Business and Professional Speaking Semester Four (16 Credit Hours) 1 CSCE 212 Intro. to Computer Architecture 3 C PR C SCE 211 & either CSCE 145 or 206 CSCE 247 Software Engineering 3 C PR G or better in CSCE 146 Laboratory Science Elective ⁵ 4 PR See Bulletin listing. MATH 241 Vector Calculus 3 PR C or better in MATH 142 Canolina Core GSS ⁵ 3 C C-GSS Semester Five (16 Credit Hours) Semester Five (16 Credit Hours) CSCE 310 Programming Language Structures 3 C MR CSCE 240 & CSCE 240 CSCE 210 or 212 CSCE 330 Programming Language Structures 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Data Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Data Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Data Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Data Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Data Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 For Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Data Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 For Structures & Algorithms 3 C MR CSCE 240 MATH 174 or 374 or 574 CSCE 350 Semester Structures & Algorithms 3 C MR CSCE 240 MATH 142 Liberal Arts Elective ⁶ 3 C MR See Bulletin listing. Semester Seven (16 Credit Hours) 1 CSCE 490 Capstone Computing Project 1 3 C MR CSCE 240 & ENGL 462 or 463; Prereq or Coreg. CSCE 350 Computing Project 1 3 C MR CSCE 240 ENGL 462 or 463; Prereq or Coreg. CSCE 350 Computing Project 1 3 C MR CSCE 240 ENGL 462 or 463; Prereq or Coreg. CSCE 350 Computing Project 1 3 C MR CSCE 240 ENGL 462 or 463; Prereq or Coreg. CSCE 350 Computing Project 1 3 C MR CSCE 240 ENGL 462 or 463; Prereq or Coreg. CSCE 350 Computing Project 1 3 C MR CSCE 240 ENGL 462 or 463; Prereq or Coreg. CSCE 350 Comput | | | | | | | |
| or SPCH 230 Business and Professional Speaking Semester Four (16 Credit Hours) 1 CSCE 212 Intro. to Computer Architecture 2 CSCE 247 Software Engineering 2 C PR Cor better in CSCE 146 Laboratory Science Elective* 4 PR See Bulletin listing. MATH 241 Vector Calculus 3 CC-GSS Carolina Core GSS* 3 CC-GSS Semester Five (16 Credit Hours) CSCE 310 Programming Language Structures 3 C MR CSCE 240 & CSCE 210 or 212 CSCE 330 Programming Language Structures 3 C MR CSCE 240, MATH 174 or 374 or 574 CSSCE 350 Data Structures & Algorithms 3 C MR CSCE 240, MATH 174 or 374 or 574 CSCE 350 Data Structures & Algorithms 3 C C-CSR I ENGL 462 Technical Writing or ENGL 463 Business Writing Application Area Elective* 3 PR See Bulletin listing. Semester Six (15 Credit Hours) CSCE 340 R CSCE 340 R CSCE 340 CSCE 340 R CSCE 340 CSCE 340 R CSCE 340 APPLICATION OF A CSCE 340 CSCE 340 R CSCE 340 APPLICATION OF A CSCE 340 CSCE 340 R CSCE 340 | | | | | | (PHYS 212 only) | |
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| CSCE 212 Intro. to Computer Architecture | | | | | | | |
| CSCE 247 Software Engineering 3 | | 2 | - | * | DD | CCCE 044 % aith an CCCE 445 an 000 | |
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| Or ENGL 463 Business Writing | | | Ċ | | _ | | |
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Graduation Requirements Summary

| Minimum Total | Minimum Major | College & Program | Minimum | Minimum |
|---------------|--------------------|--------------------|---------------------|-------------------|
| Hours | Requirements Hours | Requirements Hours | Carolina Core Hours | Institutional GPA |
| 125 | 30 | 60 | 35 | |

- 1. Regardless of individual course grades, students must maintain a minimum 2.00 cumulative GPA.
- 2. Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the Computer Science program GPA of 2.00.
- 3. Students who place into MATH 115 will be required to successfully complete it before taking MATH 141.
- 4. The <u>Carolina Core</u> provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students. Students in the College of Engineering and Computing are required to demonstrate proficiency in one foreign language equivalent to the 121 course by 1) a score of two or better on the foreign language placement test; or 2) completion of the 109 and 110 courses in FREN, GERM, LATN, or SPAN or completion of the 121 course in another foreign language. Students who do not place out of the GFL requirement may need to take additional hours to meet this requirement.
- 5. Laboratory Science Elective (4 hours): ANTH 161; ASTR 101; BIOL 101 & 101L, 110; CHEM 111 & 111L, 141; ENVR 101 &101L, 200; GEOG 201, 202; GEOL 101, 103, 201, 215 & 215L, 302; MSCI 101, 102, 210 & 210L, 215 & 215L; PHYS 211 & 211L
- 6. **Application Area Electives**: An application area consists of three courses (9 hours) that display a distinct curricular pattern that is different from computer science. Any three non-CSCE courses that are from one department or are a subset of a defined minor, and that are each 3 credit hours or more, may satisfy this requirement. Students may petition the department for approval of other sets of application area courses.
- 7. CSCE Major Electives (9 hours): CSCE 317 or any CSCE course 500 or higher.
- 8. Liberal Arts Electives include: AERO 401, 402; AFAM 201-580; ANTH 101-499; ARMY 401, 402; ARTE 101, 260; ARTH 105-366; ARTS 103-261; CHIN 103-550; CLAS 220-598; CPLT 150-597; CRJU 100-494; DANC 101-381; ECON 123-499; ENGL 270-499; FAMS 180-597; FREN 109-615; GEOG 103-595; GERM 109-615; HIST 101-692; ITAL 101-615; JAPA 121-500; LASP 201-451; LATN 109-615; LING 300-600; MART 110-341; MUSC 110-140; NAVY 401, 402; PHIL 101-109, 112-598; POLI 101-499; PORT 121-615; PSYC 101-499; RELG 101-552; RUSS 121-616; SOCY 101-499; SOST 101-500; SPAN 109-615; THEA 170-565; WGST 112-555.

Program Notes:

- Courses identified as "critical" may affect time to graduation due to prerequisite requirements for subsequent required courses.
- No Carolina Core, Lower Division Computing, Computer Science Major, or Computer Science Elective course may be counted toward a minor or application area. All other degree-required courses and electives may be used for a minor as appropriate.
- A student cannot repeat courses from the College of Engineering and Computing in which they earned a grade of C or better. In addition, a student cannot repeat any course from the College a second time. No more than four courses from the College of Engineering and Computing may be repeated in order to satisfy the requirements for any degree from the College, regardless of satisfactory work. For this purpose, withdrawal from a course with a grade of **W** is not regarded as enrollment in that course. A student that does not satisfactorily complete a degree-required College course within two attempts must change major or transfer out of the College of Engineering and Computing.
- The last 30 credit hours toward your degree and at least half of the major must be earned in residence at the University of South Carolina-Columbia.
- Disclaimer: Prerequisites on courses are subject to change. Please refer to Bulletin.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the Carolina Core page on the University website.

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| Codes: | | | | | | | |
| CC | Carolina Core | CC-INF | Carolina Core – Information Literacy | | | | |
| CC-AIU | Carolina Core-Aesthetic and Interpretive Understanding | CC-INT | Carolina Core – Integrative Course | | | | |
| CC-ARP | Carolina Core-Analytical Reasoning and Problem-Solving | CC-SCI | Carolina Core – Scientific Literacy | | | | |
| CC-CMS | Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component | CC-VSR | Carolina Core - Values, Ethics, and Social Responsibility | | | | |
| CC-CMW | Effective, Engaged, and Persuasive Communication: Written Component | CR | College Requirement | | | | |
| CC-GFL | Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language | MR | Major Requirement | | | | |
| CC-GHS | Carolina Core – Historical Thinking | PR | Program Requirement | | | | |
| CC-GSS | Carolina Core – Social Sciences | | | | | | |

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.